

OPTIONAL INFORMATION	
Name of School:	Date of Inspection:
Vocational Program/Course/Room:	Signature of Inspector:

## WELDING WITH RESISTANCE WELDING EQUIPMENT SELF INSPECTION CHECKLIST

**Guidelines:** This checklist covers some of the regulations issued by the U.S. Department of Labor - OSHA under the General Industry standards 29 CFR 1910.255 and 29 CFR 1910.306 which were adopted by reference. It applies to the use of resistance welding equipment. **This checklist must be used in conjunction with the checklist "Welding, Cutting and Brazing - General Requirements."**

General	<u>Please Circle</u>
1. Is all resistance welding equipment installed by a qualified electrician? [29 CFR 1910.255(a)(1)]	Y N N/A DK
2. Is a disconnecting switch, circuit breaker or circuit interrupter conveniently located at or near each resistance welding machine which is capable of isolating it from the supply circuit? [29 CFR 1910.255(a)(1) and 29 CFR 1910.306(d)(2)]	Y N N/A DK
3. Are ignitron tubes used in resistance welding equipment equipped with a thermal protection switch? [29 CFR 1910.255(a)(2)]	Y N N/A DK
4. Are students/employees trained and judged competent to operate resistance welding equipment? [29 CFR 1910.255(a)(3)]	Y N N/A DK
Comments/Corrective Action	

**WELDING WITH RESISTANCE WELDING EQUIPMENT  
SELF INSPECTION CHECKLIST**

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| 5. Are controls of automatic or air and hydraulic clamps arranged or guarded to prevent accidental operator activation? [29 CFR 1910.255(a)(4)] | Y N N/A DK |
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**Spot and Seam Welding Machines  
(nonportable)**

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| 6. Are external weld initiation control circuits of nonportable spot and seam welding machines limited to a maximum of 120 volts? [29 CFR 1910.255(b)(1)]  | Y N N/A DK |
| 7. Are welding machine cabinet doors electrically interlocked to interrupt power, short circuit capacitors or otherwise prevent access to live electrical equipment? [29 CFR 1910.255(b)(2) & (3)] | Y N N/A DK |
| 8. Are press welding machines effectively guarded to prevent operator hand injury? [29 CFR 1910.255(b)(4)]   | Y N N/A DK |
| 9. Are point of operation shield guards and fire-resistant curtains installed to prevent students/employees or passerby from flying sparks? [29 CFR 1910.255(b)(5)]                                | Y N N/A DK |
| 10. Are foot switches guarded to prevent accidental machine operation? [29 CFR 1910.255(b)(6)]   | Y N N/A DK |
| 11. Are two or more safety emergency stop buttons provided on all special multi-spot welding machines including two-post and four-post weld presses? [29 CFR 1910.255(b)(7)]                       | Y N N/A DK |
| 12. Where technically practical, are secondary welding transformers used in multispot, projection and seam welding machines grounded? [29 CFR 1910.255(b)(9)]                                      | Y N N/A DK |

Comments/Corrective Action

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**Portable Welding Machines**

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| 13. | Are portable welding guns suitably counterbalanced for supporting the guns, including cables, unless the design of the gun or fixture makes counterbalancing impractical or unnecessary? [29 CFR 1910.255(c)(1)] | Y N N/A DK |
| 14. | Are portable welding machines suspended from overhead structures equipped with safety chains or cables? [29 CFR 1910.255(c)(2)]  | Y N N/A DK |
| 15. | Are initiating switches guarded to prevent accidental operator activation? [29 CFR 1910.255(c)(4)]   | Y N N/A DK |
| 16. | Does the movable holder, where it enters the gun frame, have sufficient clearance to prevent the shearing of fingers carelessly placed on the operating movable holder? [29 CFR 1910.255(c)(5)]                  | Y N N/A DK |
| 17. | Is the secondary and case of all portable welding transformers grounded? [29 CFR 1910.255(c)(6)]   | Y N N/A DK |

**Flash Welding Equipment**

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| 18. | Are flash welding machines equipped with a hood to control flying flash? [29 CFR 1910.255(d)(1)]   | Y N N/A DK |
| 19. | Are fire resistant curtains or suitable shields set up around the machine and in such a manner that the operator's movements are not hampered? [29 CFR 1910.255(d)(2)] | Y N N/A DK |

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| 20. | Are periodic inspections of welding equipment performed by qualified maintenance personnel? [29 CFR 1910.255(e)]   | Y N N/A DK |
| 21. | Is a certification record of periodically inspected welding equipment maintained which includes date of inspection, signature of inspector and equipment serial number or other identifier? [29 CFR 1910.255(e)] | Y N N/A DK |

**Maintenance**

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|-----|---|------------|
| 22. | Are welding machine operators required to report any equipment defect to his/her supervisor and is the use of the equipment discontinued until safety repairs have been completed? [29 CFR 1910.255(e)] | Y N N/A DK |
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Comments/Corrective Action